

Name: _____

at1124exam: Radicals and Squares (v802)

Question 1

Simplify the radical expressions.

$$\sqrt{20}$$

$$\sqrt{28}$$

$$\sqrt{8}$$

Question 2

Find all solutions to the equation below:

$$2(x + 10)^2 - 4 = 94$$

Question 3

By completing the square, find both solutions to the given equation. *You must show work for full credit!*

$$x^2 + 8x = 65$$

Question 4

A quadratic polynomial function is shown below in standard form.

$$y = 3x^2 - 30x + 84$$

Express the function in **vertex form** and identify the **location** of the vertex.